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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)

Ravkin et al.)

Application No. 10/816,432)

Filed: March 31, 2004)

For: SUBSTRATE BRUSH SCRUBBING AND)
PROXIMITY CLEANING-DRYING)
SEQUENCE USING COMPATIBLE)
CHEMISTRIES, AND METHOD,)
APPARATUS, AND SYSTEM FOR)
IMPLEMENTING THE SAME)

Examiner: Bibi S. Carrillo

Art Unit: 1746

Docket No. LAM2P463

Date: September 12, 2005



CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 12, 2005.

Signed: _____

Fariba Yadegar-Bandari

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.56 AND 1.97(c) and (e)

Mail Stop: Amendment
Commissioner of Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, (the copies of references which are not U.S. Patents have been attached), may be material to examination of the above-identified patent application. The Applicants submit these references in compliance with the Applicants' duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make this citation of official record in the subject application. This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, that additional information material to the examination of the subject application does not exist, or that these references indeed constitute prior art.

The Applicants herein attach a copy of the International Search Report issued by the International Searching Authority in the counterpart International Patent Application. It is respectfully submitted that the four references cited in the International Search Report have already been cited by the Office in the subject application, and as such, have not been produced.

References K3 (JP08277486), L3 (JP05837190), and M3 (JP02280330) cited on sheet three of the Form 1449 are in the Japanese language. Corresponding English language abstracts have been enclosed herewith. Furthermore, Reference O3 is an English summary of Reference L3 (JP05837190). The Applicants respectfully submit that the English language abstracts and the English summary are general representations of what the respective

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references are teaching. Yet further, Reference N3 is a machine-generated translation of Reference K3 (JP08277486).

Still Further, References K4 (JP2309638), L4 (JP11350169), and M4 (JP 2003-151948) on sheet four of Form 1449 are in the Japanese language. Corresponding English language abstracts have been enclosed herewith. The Applicants respectfully submit that the English language abstracts are general representations of what the respective references are teaching. Additionally, Reference N4 is a machine-generated translation of Reference L4 (JP11350169).

If the Office feels that more translation is needed, the Applicants will provide such additional translation upon any such request. Absent such request from the Examiner, the Applicants will assume that the Office finds the translations sufficient.

The fee of (\$180.00) as required in 37 C.F.R. § 1.17(p) is included with this Transmittal. The Commissioner is authorized to charge any additional fees that may be due to our Deposit Account No. 50-0805 (Order No. LAM2P463). A duplicate copy of the Transmittal is enclosed for this purpose.

Respectfully submitted,
MARTINE PENILLA & GENCARELLA, LLP



Fariba Yadegar-Bandari, Esq.
Reg. No. 53,805

710 Lakeway Drive, Suite 200
Sunnyvale, CA 94085
Telephone: (408) 774-6913
Facsimile: (408) 749-6901
Customer Number 25920

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/816,432 |
| Filing Date | March 31, 2004 |
| First Named Inventor | RAVKIN et al. |
| Art Unit | 1746 |
| Examiner Name | Bibi S. Carrillo |
| Attorney Docket Number | LAM2P463 |

Sheet 1 of 6

U.S. Patent Documents

| Examiner Initials | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear |
|-------------------|-----------------------|-------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|
| | A1 | 2002/0020622 A1 | 02/21/02 | Hanson et al. | |
| | B1 | 2002/0121290 A1 | 09/05/02 | Tang et al. | |
| | C1 | 2002/0125212 A1 | 09/12/02 | Mertens et al. | |
| | D1 | 2004/0060581 A1 | 04/01/04 | Garcia et al. | |
| | E1 | 2004/0136494 A1 | 07/15/04 | Lof et al. | |
| | F1 | 2004/0178060 A1 | 09/16/04 | Ravkin et al. | |
| | G1 | 5,271,774 | 12/21/93 | Leenaars et al. | |
| | H1 | 5,343,234 | 8/30/94 | Kuehnle | |
| | I1 | 5,361,449 | 11/08/94 | Akimoto | |
| | J1 | 5,472,502 | 12/95 | Batchelder | |

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|------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| | K1 | EP 0 905 746 A1 | 3/31/99 | Interniversitair Micro-Elektronica Centrum VZW | | <input type="checkbox"/> |
| | L1 | EP 0 905 747 A1 | 3/31/99 | Interniversitair Micro-Elektronica Centrum VZW | | <input type="checkbox"/> |
| | M1 | WO 99/16109 A1 | 4/1/99 | Interniversitair Micro-Elektronica Centrum VZW | | <input type="checkbox"/> |

Non Patent Literature Documents

| Examiner Initial | Cite No. | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|--------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | N1 | J.A. Britten, "A moving-zone Marangoni drying process for critical cleaning and wet processing," October, 1997, <i>Solid State Technology</i> |
| | O1 | OWA et al. "Immersion lithography; its potential performance and issues", Proceedings of the SPIE, SPIE, Bellingham, VA, US, Vol. 5040, No. 1, February 28, 2003, pages 724-733, XP002294500 |
| Examiner Signature | | Date Considered |

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/816,432 |
| | | | | Filing Date | March 31, 2004 |
| | | | | First Named Inventor | RAVKIN et al. |
| | | | | Art Unit | 1746 |
| Sheet | 2 | of | 6 | Examiner Name | Biba S. Carrillo |
| | | | | Attorney Docket Number | LAM2P463 |

U.S. Patent Documents

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|-------------------|-----------------------|-------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|
| | | Number-Kind Code 2 (if known) | | | |
| | A2 | 2004/0182422 A1 | 09/23/04 | Boyd et al. | |
| | B2 | 3,953,265 | 4/27/76 | Hood | |
| | C2 | 4,444,492 | 4/24/84 | Lee | |
| | D2 | 4,838,289 | 06/13/89 | Kottman et al. | |
| | E2 | 5,102,494 | 4/7/92 | Harvey et al. | |
| | F2 | 5,180,431 | 1/19/93 | Sugimoto et al. | |
| | G2 | 5,807,522 | 09/15/98 | Brown et al. | |
| | H2 | 5,830,334 | 11/03/98 | Kobayashi | |
| | I2 | 5,882,433 | 03/16/99 | Ueno | |
| | J2 | 5,945,351 | 08/31/99 | Mathuni | |

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|------------------|-----------------------|-----------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| | | Country Code ² -Number-Kind Code 5 ⁶ (if known) | | | | |
| | K2 | WO 02/01613 A3 | 1/3/02 | Applied Materials, Inc. | | <input type="checkbox"/> |
| | L2 | WO 02/32825 A1 | 4/25/02 | The Regents of the University of California | | <input type="checkbox"/> |
| | M2 | WO 02/101795 A3 | 12/19/02 | Verteq, Inc. | | <input type="checkbox"/> |

Non Patent Literature Documents

| Examiner Initial | Cite No. | Include name of author (in CAPTIAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | N2 | LIM et al., "Atomic Layer deposition of transition metals", Department of Chemistry and Chemical Biology, Harvard University, Nature Publishing Group, Volume 2, November 2003, Pages 749-754 |
| | O2 | ICKnowledge LLC, "Technology Backgrounder: Atomic Layer Deposition", ICKnowledge.com, 2004, Pages 1-7 |

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|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

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| | | | | Attorney Docket Number | LAM2P463 |

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| | | Number-Kind Code ² (if known) | | | |
| | A3 | 5,558,111 | 09/96 | Lofaro | |
| | B3 | 5,601,655 | 02/11/97 | Bok et al. | |
| | C3 | 5,660,642 | 8/26/97 | Britten | |
| | D3 | 5,705,223 | 01/06/98 | Bunkofske | |
| | E3 | 5,709,757 | 01/98 | Hatano et al. | |
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| | G3 | 5,830,334 | 11/3/98 | Kobayashi | |
| | H3 | 5,882,433 | 3/16/99 | Ueno | |
| | I3 | 5,893,004 | 4/6/99 | Yamamura | |
| | J3 | 5,945,351 | 08/31/99 | Mathuni | |

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|------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| | | Country Code ³ -Number- ⁴ Kind Code ⁵ (if known) | | | | |
| | K3 | JP08277486 (Patent Abstract in English provided) | 10/22/96 | Dainippon Printing Co. Ltd. | | <input type="checkbox"/> |
| | L3 | JP05837190 (Patent Abstract in English provided) | 03/04/83 | Sonitsukusu: KK | | <input type="checkbox"/> |
| | M3 | JP02280330 (Patent Abstract in English provided) | 11/16/90 | Mitsubishi Electric Corporation | | <input type="checkbox"/> |

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| Examiner Initial | Cite No. | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | N3 | Machine generated English translation of JP08277486 (Reference K3) |
| | O3 | English Summary of JP05837190 (Reference L3) |

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| Examiner Signature | | Date Considered | |
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| | | Number-Kind Code ² (if known) | | | |
| | A4 | 5,975,098 | 11/2/99 | Yoshitani et al. | |
| | B4 | 5,989,478 | 11/23/99 | Ouellette et al. | |
| | C4 | 5,997,653 | 12/07/99 | Yamasaka | |
| | D4 | 6,086,454 | 07/00 | Watanabe et al. | |
| | E4 | 6,092,937 | 07/00 | Snodgrass et al. | |
| | F4 | 6,108,932 | 8/29/00 | Chai | |
| | G4 | 6,132,586 | 10/17/00 | Adams et al. | |
| | H4 | 6,214,513 | 04/10/01 | Cai et al. | |
| | I4 | 6,230,722 | 05/15/01 | Mitsumori et al. | |
| | J4 | 6,341,998 | 01/29/02 | Zhang | |

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|------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | K4 | JP02309638 (Patent Abstract in English provided) | 12/25/90 | Fujitsu Ltd. | | <input type="checkbox"/> |
| | L4 | JP11350169 (Patent Abstract in English provided) | 12/21/99 | Chemitoronics Co. | | <input type="checkbox"/> |
| | M4 | JP 2003-151948 (Patent Abstract in English provided) | 05/23/03 | Seiko Epson Corporation | | <input type="checkbox"/> |

Non Patent Literature Documents

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|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | N4 | Machine generated English translation for JP11350169 (Reference L4) |
| | O4 | "Chemical vapor deposition", Wikipedia, the free encyclopedia, http://en.wikipedia.org/wiki/Chemical_vapor_deposition , 2005, Page 1-2 |

| | | | |
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| | | | Art Unit | 1746 | |
| Examiner Name | Bibi S. Carrillo | | | | |
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| | | Number-Kind Code ² (if known) | | | |
| | A5 | 6,391,166 | 05/21/02 | Wang | |
| | B5 | 6,398,975 | 06/04/02 | Mertens et al. | |
| | C5 | 6,417,117 | 07/09/02 | Davis | |
| | D5 | 6,488,040 | 12/03/02 | De Larios et al. | |
| | E5 | 6,491,764 | 12/10/02 | Mertens et al. | |
| | F5 | 6,531,206 | 03/11/03 | Johnston et al. | |
| | G5 | 6,555,017 | 04/29/03 | Rushford et al. | |
| | H5 | | | | |
| | I5 | | | | |
| | J5 | | | | |

Foreign Patent Documents

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|------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| | | Country Code ³ -Number- ⁴ Kind Code ⁵ (if known) | | | | |
| | K5 | EP 1 489 461 A1 | 12/22/04 | ASML Netherlands B.V. | | <input type="checkbox"/> |
| | L5 | EP 1 489 462 A2 | 12/22/04 | ASML Holding N.V. | | <input type="checkbox"/> |
| | M5 | WO 99/49504 | 9/30/99 | Nippon Kogaku KK | | <input type="checkbox"/> |

Non Patent Literature Documents

| Examiner Initial | Cite No. | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | N5 | SIGMA-ALDRICH, "Atomic Layer Deposition (ALD)", http://www.sigmaaldrich.com/Area_of_Interest/Chemistry/Materials_Science/Thin_Films , 2005, Pages 1-2 |
| | O5 | |

Unpublished U.S. Patent Applications

| Examiner Initial | Cite No. ¹ | Application Number | Filing Date | Name of Applicant of Cited Document | Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--------------------|-----------------|-------------------------------------|---------------------------------------------------------------------------|
| | P5 | 10/742,303 | 12/18/03 | Boyd et al. | |
| | Q5 | 10/817,398 | 04/01/04 | Korolik et al. | |
| | R5 | 10/817,355 | 04/01/04 | Woods | |
| Examiner Signature | | | Date Considered | | |

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| | | Number-Kind Code ² (if known) | | | |
| | A6 | | | | |
| | B6 | | | | |
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|------------------|-----------------------|-----------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| | | Country Code ³ -Number- ⁴ Kind Code 5(if known) | | | | |
| | K7 | JP 11-31672 (Patent Abstract in English provided) | 02/02/99 | Hitachi Ltd. | | <input type="checkbox"/> |
| | L7 | | | | | <input type="checkbox"/> |
| | M7 | | | | | <input type="checkbox"/> |

Non Patent Literature Documents

| Examiner Initial | Cite No. | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
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| | N6 | |
| | O6 | |

Unpublished U.S. Patent Applications

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| | | Country Code ³ -Number- ⁴ Kind Code 5(if known) | | | | |
| | P6 | 10/817,620 | 04/01/04 | Woods | | <input type="checkbox"/> |
| | Q6 | 10/817,133 | 04/01/04 | Woods et al. | | <input type="checkbox"/> |
| | R6 | 10/834,548 | 04/28/04 | Hemker et al. | | <input type="checkbox"/> |
| Examiner Signature | | | Date Considered | | | |

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